

ELANKE®



0606

CORDLESS DRILL/SCREWDRIVER

Model Nos.

CCD96 • CCD120 • CCD140 • CCD180 • CCD240

OPERATING & MAINTENANCE INSTRUCTIONS



When disposing of this product, ensure it is disposed of according to all local ordinances. It must not be disposed of with general household waste.

PARTS & SERVICE CONTACTS

For Spare Parts and Service, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400

PARTS & SERVICE FAX: 020 8558 3622

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

Thank you for purchasing this CLARKE Cordless Drill set designed for DIY use ONLY. Please read this booklet thoroughly. Your Clarke Cordless drill will give good service if it is used carefully and in accordance with the following advice and recommendations. Do not use excessive force and as with all tools, it should be treated with respect.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase. This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

TECHNICAL DATA

Model No.	CCD96	CCD120	CCD140	CCD180	CCD240
Part No.	6485010	6485020	6485030	6485040	6485050
Chuck Capacity	10mm	10mm	10mm	10mm	13mm
Speed Range	0-550	0-550	0-600	0-400/0-1100	0-450/0-1200
Voltage	9.6V	12 V	14.4V	18V	24V
Vibration Levels	<2.5m/s ²	<2.5m/s ²	<2.5m/s ²	<2.5m/s ²	7.0m/s ²
Sound Press Level (1M)<70dBA	<70dBA	<70dBA	<70dBA	<70dBA	91.3dBA
Weight	1.45kg	1.5kg	1.7kg	1.9kg	2.6kg

Battery

Part No.	GRCCD9601	GRCCD1201	GRCCD1401	GRCCD1801	GRCCD2401
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Base Unit

Part No.	GRCCD9602	GRCCD1202	GRCCD1402	GRCCD1802	GRCCD2402
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3 Hour Charger

Part No.	GRCCD9603	GRCCD1203	GRCCD1403	GRCCD1803	GRCCD2403
Input Volts	230VAC	230VAC	230VAC	230VAC	230VAC
Charging Time	3-5hrs	3-5hrs	3-5hrs	3-5hrs	3-5hrs

Please quote the above part numbers when ordering any of the above items as replacement or spare parts.

GENERAL SAFETY PRECAUTIONS

1. Keep your Clarke Cordless drill and all other power tools out of reach of children.
2. Keep all equipment dry especially the battery and battery charger.
3. When drilling into walls, ceilings and floors, check first for concealed main services, Water, Electric and Gas.
4. Always wear safety goggles*. Take particular care when drilling overhead.
5. We recommend the use of an appropriate dust mask*.
6. Loose clothing and long hair can prove a danger if caught up in machinery. Take suitable precautions.
7. When drilling into certain materials, sound pressure levels may prove a discomfort, in which case we recommend the use of ear defenders*.
8. ALWAYS disconnect from the mains supply when changing bits or when the drill is not required for immediate use..
9. ALWAYS hold the drill firmly with BOTH hands when drilling. A drill could stall if overloaded or used improperly. ALWAYS expect a stall and be prepared for it.
10. DO NOT use in damp or wet conditions. Keep the work area well lit. DO NOT use where a risk of fire or explosion is present.
11. ALWAYS ensure the workpiece is perfectly secure before drilling. Use clamps or a vice which is safer than your hands and frees both hands to operate the drill.

***Contact your Clarke dealer for information on the various Clarke safety products available.**

HELPFUL HINTS ON DRILLING

- After drilling material to the full depth, do not simply pull out the drill but maintain chuck rotation to ease withdrawal.
- Keep drill bits sharpened for optimum performance.
- Always drill directly in line with the bit. Do not use sideways movement as this may damage the drill or cause the bit to break.
- Always use a cutting lubricant when drilling all metals except brass and cast iron which should be drilled dry.
- As a general rule, when drilling metal, the harder the metal the slower the drill speed. Similarly, the bigger the drill the slower the speed. Consult a suitable book of reference if necessary.

Always start drilling at a slow speed to prevent the drill from slipping out of the pop mark or indent, gradually increasing speed until the optimum cutting speed is achieved whilst maintaining a MODERATE pressure ONLY. NEVER force the drill bit into the work. This will overheat the tip and cause it to dull very quickly.

If the drill is not cutting the metal then sharpen the drill, ensuring the various cutting angles are correct. Consult a suitable book of reference or a qualified technician.

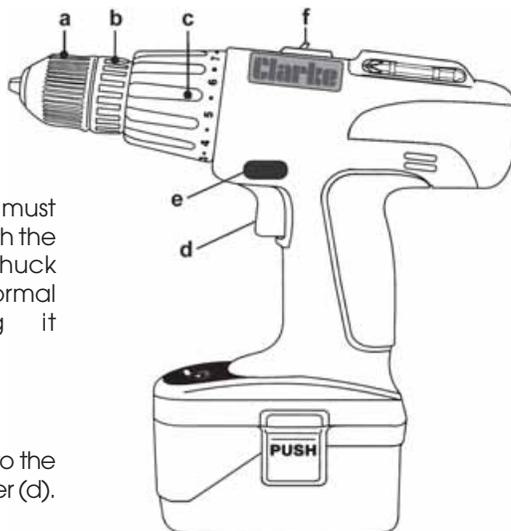
GET TO KNOW YOUR CORDLESS DRILL

Chuck

No key is required for operation. To secure a bit, hold the rear portion of the chuck (b) securely with one hand and turn the front portion (a) anticlockwise (from the front). To remove the bit, repeat the foregoing but turn the chuck clockwise.

Removing the Chuck

Open the jaws to their fullest extent to allow a cross head screwdriver to be inserted, down through the jaws, to engage in the cross head slot of the securing screw. The screw has a **LEFT HAND THREAD** and must therefore be turned **CLOCKWISE**. With the screw fully loosened, grasp the chuck and unscrew it from the drill in the normal manner, i.e., by screwing it **ANTICLOCKWISE**.



Variable Speed

Variable speed is possible according to the amount of finger pressure on the trigger (d).

Torque Adjustment (c)

(For correct tightening of screws/nuts)

This control is located immediately behind the chuck assembly and is numbered in steps, the number of steps depends upon the model number. These settings allow the exact amount of torque, or turning force required, to be applied and will help maintain consistent performance, especially where there are many identical fixings to be made. It is particularly useful for preventing excessive tightening, but because of the wide variety of screws available and different material densities, the optimum setting is best found by experiment.

Always release the main trigger immediately the percussive clicking sound is felt and heard. This indicates that the tool has reached its torque setting and the bit will turn no further. Turn to a lower number if screws go too deep or strip the material. Turn to a higher number if screws stand too proud. NOTE: For drilling always set to 6 which is marked with a sign for a drill bit.

Direction of rotation

The 3-position control knob (e) controls forward or reverse direction of rotation. Push the knob fully left or right **ONLY** when the chuck is **STATIONARY**.

When the knob is in the central position, the trigger is prevented from operating.

Speed Range

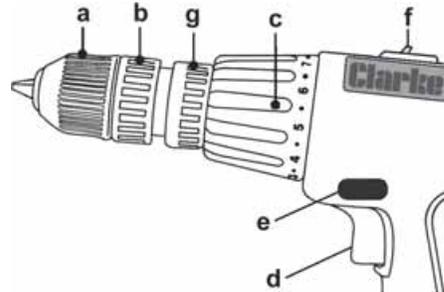
Models CCD180 and CCD 240 ONLY are provided with 2 speed ranges. The selector lever is shown at (f). Operate this lever **ONLY** when the chuck is stationary.

Hammer Action

Model CCD 240 ONLY is provided with a hammer action facility.

Turn the ring shown at (g) in the illustration opposite when this facility is required.

NOTE: This should always be performed when the chuck is stationary.



BATTERY CHARGING AND CARE

Your Clarke Cordless drill is supplied with a 3 hour battery charger. To detach the battery from the drill, press the two lugs, either side of the battery simultaneously whilst gently pulling downwards.

A. Three Hour Charger

(Standard, with all models)

This is a two piece unit incorporating a transformer fitted with a 2 core lead and a jack for plugging into the separate base unit.



B. Electrical Connections

The transformer plugs directly into a standard domestic 13Amp supply. A jack, fitted to the end of the twin core cable, plugs into the base unit.

C. Battery Charging

When plugging the battery into the base unit, ensure it is entered the correct way round, i.e. +ve to +ve, the signs being marked on both the battery and base unit. When plugged in correctly the battery should sit as shown in the illustration opposite.

When the battery is charging, the red LED (arrowed) will illuminate. Remove the battery when it has extinguished.



NOTE: A complete charge will take approx. 3 -5 hours, depending on the state of the battery, and after this time the LED will extinguish. The battery may then be removed and the power switched off.

If the battery is not to be fitted immediately, ensure that the metal contacts are protected so as to avoid the possibility of a short circuit which would cause damage.

Remember to avoid extremes of heat or cold when charging.

NOTE:

Ni-Cad batteries as used in Clarke Cordless Drills should be given a full charge when first supplied new. Maximum battery performance will be achieved after approximately 5 complete charge/discharge cycles.

Protect batteries from extremes of temperature at all times, but especially whilst charging.

Minimum 4°C. Maximum 40°C.

Avoid placing batteries in direct strong sunlight or any other heat source. If the battery becomes warm, disconnect and allow it to cool down for a few minutes. Nickel cadmium batteries will slowly lose their power whilst in storage. A periodic re-charge is therefore recommended.

Do not leave the batteries in a discharged state for any length of time.

IMPORTANT:

The full capacity of a Ni-Cad battery will only be realised if it is allowed to discharge almost completely before once again being re-charged.

Constant topping up after only a small amount of charge has been used will, in effect, reduce its capacity

To achieve the ideal objective, particularly if the drill is in regular use, it will be found useful to purchase an additional battery.

BATTERIES - IMPORTANT NOTES

After being re-charged many times, nickel cadmium batteries will eventually lose their ability to hold the charge. This will be evident if power is lost much sooner than usual after a complete re-charge. In this case, such batteries should be replaced. Dispose of old batteries with consideration for the environment. They may be returned by post to the Clarke Parts and Service Centre (see page 3) where you can be assured they will be disposed of safely. Alternatively, seek advice from your local waste disposal authority. Do not incinerate or crush, as this will increase the risk of explosion and contamination. If the battery contents should under any circumstance be spilt wash away with soap and plenty of water. Vinegar or lemon juice will also help to neutralise the harmful effects of the battery contents. If these come into contact with skin or more especially the eyes, rinse with clean water for several minutes and seek medical advice immediately afterwards.